

Alpha-olefin polymerisation process

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Abstract

A method of polymerization of alpha-olefins using a catalytic system comprising a catalytic complex based on a metal from Groups 6-12 of the Periodic Table, a specified trialkylaluminum and a specified organoaluminum compound. A method of polymerization of alpha-olefins using a catalytic system comprising a catalytic complex based on a metal from Groups 6-12 of the Periodic Table, a specified trialkylaluminum and a specified organoaluminum compound. The trialkylaluminum compound is of Formula AlR₃ (Ia): R = 1-12C alkyl. The organoaluminum compound is of Formula R_nAlY_{3-n} (Ib): n = 1, 2; Y = group of formula -GR_a or -G'(R_b)_p(R_c)_{2-p}; G = Group 16 element; G' = Group 15 element; R_a = halogenated alkyl, optionally halogenated aromatic hydrocarbon or hetero hydrocarbon, alkenyl, a group of formula -B(R_d)_m(QAlRe₂)_{2-m}; R_d = hydrocarbon; R_e = 1-12C alkyl; m = 0-2; R_b = optionally halogenated alkyl, optionally halogenated aromatic hydrocarbon or hetero hydrocarbon, alkenyl, a group of formula Al(R_f)₂; R_f = 1-12C alkyl; R_c = H, optionally halogenated alkyl, optionally halogenated aromatic hydrocarbon or hetero hydrocarbon, a group of formula Al(Rh)₂; Rh = 1-12C alkyl; p = 0-2.

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